**Winning the Climate-Change Battle**

***Prof. Roy Thompson, FRSE***

[***http://www.geos.ed.ac.uk/homes/thompson/under/***](http://www.geos.ed.ac.uk/homes/thompson/under/)

**Session 1** How the climate system works.

The basic climate-change problem.

**Session 2** Global signals of a changing climate.

Why do so many sceptics doubt climate change?

**Session 3** Economics of climate change.

Fracking? Peak Oil? Renewables? Peak Coal?

**Session 4** Can science fix climate change?

Staving off catastrophic climate change.

**Videos**

1a NASA video - A Year in the Life of Earth’s CO2

<https://www.youtube.com/watch?v=x1SgmFa0r04>

1b WWF Footprint Calculator

<http://footprint.wwf.org.uk/>

2a NASA Mission Update: GRACE

<https://www.youtube.com/watch?v=h45iqPyT6lU>

2b Climate Sensitivity - Lord Monckton vs. Collin Maessen

<https://www.youtube.com/watch?v=8Nb-E--UB_0>

3a The Invisible Hand in 60 Seconds

<https://www.youtube.com/watch?v=ulyVXa-u4wE>

3b Hubbert Peak Theory – Aine Dowdall

<https://www.youtube.com/watch?v=O9KAs0gN_ls>

4a Irrefutable Film Footage of Climate Engineering Aerosol Spraying

<https://www.youtube.com/watch?v=iK9nVR9H34g>

4b A Carbon Tax That Works – Jim Hansen

<http://bigthink.com/videos/a-carbon-tax-that-works>

**Recommended additional resources**

**MOOC**

Climate Change in Four Dimensions (Excellent free online course offered by UC San Diego)

<https://class.coursera.org/4dimensions-004/>

**Video-Lecture**

Getting Serious About Climate Change – Charles D. Keeling Annual Lecture (1-hour video given by David Victor in this first-rate series of annual lectures.)

<https://www.youtube.com/watch?v=ERqGMQsihm4>

**Free .pdfs & e-Books**

Economics:

Frank Ackerman “*Can we afford the future*”. 79pp

<http://digamo.free.fr/ackerman9.pdf>

Bill Nordhaus *“A question of balance”*. 248pp

<http://www.econ.yale.edu/~nordhaus/homepage/Balance_2nd_proofs.pdf>

Science:

Daniel P. Schrag “*Confronting the Climate-Energy Challenge”* (Short 7-page article)

<http://elements.geoscienceworld.org/content/3/3/171.full.pdf>

Politics:

Anthony Giddens *“Politics of Climate Change*” (19-page discussion paper)

http://www.fcampalans.cat/images/noticias/The\_politics\_of\_climate\_change\_Anthony\_Giddens%282%29.pdf

Global Climate Change: A Challenge to Policy K.J. Arrow (Good, simple, 5-page summary)

<http://www.uio.no/studier/emner/annet/sum/SUM4015/h08/Arrow.pdf>